HARD RED SPRING WHEAT

A premium quality wheat, commanding premium prices

The HRS wheat grown in North Dakota has built a special reputation amongst numerous world buyers for exceptional end-use quality and performance. This brings value to them, and builds repeat business for producers, often at premium prices in a highly competitive world market.

U.S. HRS wheat "DNS Wheat" is valued for:

- ◆ High Protein Content
- ◆ High Vitreous Kernel Levels
- ◆ Dough Strength
- ◆ High Water Absorption
- ◆ Big Loaf Volumes

Typically used as "blending" wheat (improve protein content and protein quality), and for specialty bread products and Asian noodles.

- Bagels
- Croissants
- ▶ Frozen Doughs
- ▶ Hard Rolls
- Pizza Crust
- Artisan Breads
- ▶ Buns (Hamburger)





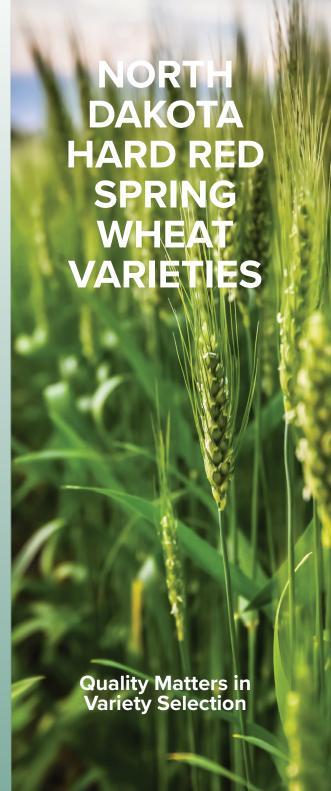








North Dakota Wheat Commission 2401 46th Avenue, SE, Suite 104 Mandan, ND 58554-4829 Website: www.ndwheat.com



Updated December 2024

HELP TO KEEP OUR SPRING WHEAT PREMIUM!

Pick a variety that will help maintain our premium markets. Quality parameters that are valued at the point of sale, as well as in the mill and bakery, must remain a priority for the U.S. spring wheat industry, from wheat breeding companies, to producers, and wheat merchandisers. Many varieties can give you strong yields and maintain quality.

The accompanying list of varieties illustrates how varieties performed in comprehensive kernel, milling and baking quality evaluations at the North Dakota State University Quality lab. All varieties were grown under the same production environments, and their individual laboratory results were scored relative to the average of the set and weighted by key quality parameters: protein, test weight, vitreous kernels, milling yield, dough strength, water absorption, and loaf volume. Hierarchical cluster analysis was used to group varieties.

Varieties shaded in green are varieties that had good to excellent quality, were balanced in numerous end-use traits, and performed at or above the customer demanded quality targets for the HRS class. Varieties shaded in yellow ranged from average to good in end-use quality testing, and were more variable across important traits. Varieties shaded in red tend to fall below customer demanded quality targets for the HRS class.

As producers select varieties that have the needed agronomics and disease resistance for their growing area, they need to consider end-use quality as well, and are encouraged to choose varieties that rate higher in end-use quality testing. This will help U.S. HRS maintain its high rank in the world wheat quality spectrum.

VARIETY

2021-2023 Data

Bolles	UMN
CAG Recoil	CAG
TCG Teddy	TCG
Glenn	
ND VitPro	NDSU
Ascend-SD	
SY Ingmar	
CP 3915	
ND Frohberg	NDSU
TCG Heartland	TCG
MS Ranchero	MS
CAG Reckless	
ND Stampede	
MS Cobra	MS
CP 3530	
Lanning	MSU
SY Longmire	AP/SY
AP Smith	
TCG Spitfire	
WB 9590	
MN Torgy	
Boost	SDSU
ND Thresher	
MN Rothsay	
AP Murdock	
SY 611 CL2	
ND Heron	
LCS Cannon	
WB 9719	
LCS Ascent	
MS Charger	
Brawn-SD	
Shelly	
Driver	
LCS Dual	
SY Valda	AP/SY
CP 3322	
Faller	
CAG Justify	CAG
LCS Trigger	LCS
PFS-Buns	
CP 3188	
LCS Buster	
CP 3099A	CP

The annual NDSU commercial statewide variety trials are the source of production used for the quality evaluation of these varieties. The trial is open to all seed companies for entries. Variety end-use performance is also influenced by environment, so some shifts can be expected on year-to-year comparisons. For a more detailed breakdown of the quality data, please refer to the NDSU HRS Circular.



ABBREVIATIONS

AP/SY	AgriPro/Syngenta
CAG	Champions Alliance Group
CP	Croplan
LCS	Limagrain Cereal Seeds
MS	Meridian Seed
MSU	Montana State University
NDSU	North Dakota State University
PFS	Peterson Farm Seeds
SDSU	. South Dakota State University
TCG	21 Century Genetics
UMN	University of Minnesota
WB	WestBred